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RECORD OF AMERICAN ZOOLOGY.

BY J. S. KINGSLEY.

(Continued from Vol. XXIV., page 816.)

IT is the intention to catalogue here in systematic order all papers relating to the Zoology of North America, including the West Indies, beginning with the year 1889. An asterisk indicates that the paper has not been seen by the recorder. Owing to the method of preparation it is impossible to collect in one issue all the papers relating to any group, but it is hoped that succeeding numbers will correct this. Authors are requested to send copies of their papers to J. S. Kingsley, Lincoln, Nebraska.

ARTHROPODA.

WATASE, S.—On the morphology of the compound eyes of Arthropods. Studies Biol. Lab. Johns Hopkins University, IV., p. 287, 1890.—See AM. NAT., XXIV., p. 373, 1890.

CRUSTACEA.

FEWKES, J. W.—A new parasite of Amphiuira. Proc. Bost. Socy., XXIV., p. 31.—A copepod in brood sac.

HAY, O. P.—Notice of a supposed new species of Branchipus from Indiana. Proc. A. A. A. S., XXXVIII., p. 286.—*B. gelidus*.

ARACHNIDA.

MCCOOK, H. C.—Note on the true systematic position of the Ray Spider. Proc. Phila. Acad., 1889, p. 180.—*Microepira Emerton* = *Therididsoma* Cambridge. Notes on spinning habits.

WEED, C. M.—A descriptive catalogue of the Phalangiinae of Illinois. Bull. Ill. State Lab. Nat. Hist., III., p. 79, 1889.—Describes ten species, of which *L. elegans*, *L. politus*, are new.

—A partial bibliography of the Phalangiinae of North America, *l. c.*, p. 99, 1889.

“RILEY AND HOWARD.”—A contribution to the literature of fatal spider bites. *Insect Life*, I., p. 204, 1889.—Case of poisoning from a bite of *Latrodectus mactans*.

WEBSTER, F. M.—Notes on a species of *Bryobia* infesting dwellings [in Indiana]. *Insect Life*, I., 277, 1889.

CORSON, E. R.—The spider bite question again. *Insect Life*, I., 280, 1889.—Six cases; none fatal.

BLANCHARD, A. D.—More evidence bearing on spider bites. *Insect Life*, I., 313, 1889.—One case.

RILEY, C. V.—The six-spotted mite of the orange. *Insect Life*, II., 225, 1890.—*Tetranychus 6-maculatus*, n. sp. from Florida.

COCKERELL, T. D. A.—*Phalangodes robusta*. *Can. Ent.*, XXI., p. 140, 1889.—Occurs in Colorado under logs.

Poison from spider bites. Discussion in *Proc. Ent. Socy. Washington*, I., p. 139, 1889.

MARX, G.—On a new and interesting spider from the United States. *Proc. Ent. Socy. Washington*, I., p. 166, 1889.—*Hypo-chilus thorelii* from Lookout Mountain, Tenn. (*vide Ent. Amer.*, IV., 160, 1888).

—On the importance of the structural characters of *Hypo-chilus* in the classification of spiders. *Proc. Entom. Socy. Washington*, I., p. 178, 1889.—A tetrapneumonous spider with dipneumonous features.

—On a new species of spider of the genus *Dinophis* from the Southern United States. *Proc. A. N. S. Phila.*, 1889, p. 341, 1890.—*D. spinosus* (Alabama).

McCook, H. C.—American spiders and their spinning work. A natural history of the orbweaving spiders of the United States, with special regard to their industry and habits. Philadelphia, 1889, Vol. I., 4°, pp. 372.—A general account, largely of habits. Will need to be read in structural portions in connection with Apstein.

KINGSLEY, J. S.—The ontogeny of *Limulus*. *AM. NAT.*, XXIV., p. 678, 1890.

WEED, C. M.—A new *Phalangium*. *AM. NAT.*, XXIV., p. 783, 1890.

POTEAT, W. L.—A tube-building spider. *Jour. Elisha Mitchell Sci. Socy.*, 1889.—Description of the tubes constructed by

Atypus niger, and account of the methods of capturing food and feeding.

WEED, C. M.—The black harvest spider. AM. NAT., XXIV., p. 683, 1890.

HEXAPODA.

HOWARD, L. O.—A commencement of a study of the parasites of cosmopolitan insects. Proc. Entom. Socy. Washington, I., p. 118, 1889.—Gives list of arthropods, with European and American parasites.

SWARTZ, E. A.—[Insect fauna of Florida.] Proc. Ent. Socy. Washington, I., p. 145, 1889.—Abstract showing relationships of semi-tropical Floridan hexapods.

WEED, C. M.—Studies in pond life. Bull. Ohio Exp. Sta., Tech. Series, I., p. 4, 1889.—Life-histories, habits, etc., of various hexapods.

WEED, C. M.—A partial bibliography of insects affecting clover, *l. c.*, p. 19, 1889.—List of 82 species, with references.

COCKERELL, T. D. A.—Some notes on Dr. A. R. Wallace's Darwinism. *Nature*, XI., 393, 1890.

OESTLUND, O. W.—On the reproduction of lost or mutilated limbs of insects. Bull. Minn. Acad. Sci., III., p. 143, 1889.—Absence of reproduction in hexapods; figures five-winged *Tremex*.

FORBES, S. A.—Sixteenth report of the State entomologist on the noxious and beneficial insects of the State of Illinois. Springfield, 1890.—Deals with chinch bugs, cornbill bugs (Rhynchophora), cut worms (Noctuidæ), meadow maggot (*Tipula bicornis*), burrowing web-worm (*Pseudanaphora arcanella*), and gives (p. 122) a bibliography of chinch bug.

COCKERELL, T. D. A.—Some insects common to Europe and Colorado. *Ent. Mo. Mag.*, XXV., 255, 1889.

—Entomological notes from Colorado. *Ibid*, p. 324, 1889.
—Continuation of above, etc.

—Notes from Colorado. *Ibid*, p. 362, 1889.

—Asymmetry in insects. *Ibid*, 382, 1889.

—Evolution of metallic colors in insects. *Entom. News*, I., p. 3, 1890.—Absence of knowledge of causes of color.

ORTHOPTERA.

WHEELER, W. M.—The embryology of *Blatta germanica* and *Doryphora decemlineata*. *Jour. Morphol.*, III., p. 291, 1889.

BRUNER, L.—New North American Acrididæ found north of the Mexican boundary. *Proc. U. S. Nat. Mus.*, XII., p. 47, 1889 [1890].—The forms described are *Mesops cylindricus* (Neb.), *Dracotettix* [n. g.] *monstrosus* (Cal.), *Ochrididia* (?) *crenulata* (Neb. to N. Mex.), *O.* (?) *cinerea* (Neb. to Idaho), *Mermira texana* (Tex., Mex.), *M. maculipennis* (Tex.), *Syrbula acuticornis* (Tex.), *Eritettix* [n. g.] *variabilis* (New Mex.), *Boötettix* [n. g.] *argentatus* (Tex., Mex.), *Pedioscirtetes pulchella* (Idaho), *Psolassa buddiana* (Tex.), *P. eurotiæ* (Col.), *Arphia saussureana* (Cal.), *Aulocara scudderi* (Kan. to Saskatchewan), *Mestobregma pulchella* (Mont.), *Conozoa texana* (Tex.), *C. albolineata* (Cal.), *C. kæbeli* (Cal.), *Trimerotropis cyaneipennis* (Utah), *T. azurescens* (Mont., Ida., Wy.), *T. bifasciata* (Cal.), *T. californica* (Cal.), *T. modesta* (N. Mex.), *T. thalassica* (Cal.), *T. pacifica* (Cal.), *T. perplexa* (Neb.), *Circotettix lapidicolus* (Idaho), *C. shastanus* (Cal.), *Ædipoda* (?) *occidentalis* (Cal.), *Thrinicus* (?) *avidus* (N. Mex.), *Th.* (?) *maculatus* (Cal.), *Haldemanella robusta* (Ariz.). A plate illustrates the paper.

COLEOPTERA.

SHERMAN, J. D., JR.—Notes on Coleoptera of Peekskill, N. Y., for 1887. *Proc. Ent. Socy. Washington*, I., p. 162, 1889.—Habits and food plants.

SCHWARTZ, E. A.—Notes on the food habits of some North American Scolytidæ and their Coleopterous enemies. *Proc. Ent. Socy. Washington*, I., p. 163, 1889.

—On a collection of Coleoptera from St. Augustine, Fla. *Proc. Ent. Socy. Washington*, I., p. 169, 1889.—Facies of fauna.

—Coleopterological notes. *Proc. Ent. Socy. Washington*, I., p. 174, 1889.—*Spericus gibbus*, a museum pest; Scolytidæ on tamarack; sexes in *Pissodes* and *Photinus*; notes on *Sinoxylon*.

TOWNSEND, TYLER.—Twelve species of Coleoptera taken from stomachs of toads in Michigan, with remarks on the food habits of toads. *Proc. Ent. Socy. Washington*, I., p. 167, 1889.

WEED, C. M.—Preparatory stages of the 20-spotted lady bird. *Bull. Ohio Exp. Sta., Tech. Series*, I., p. 3, 1889.

—Studies in pond life, *l. c.*, p. 4, 1889.—Life-histories and habits of *Listronotus latiusculus*, *Donacia subtilis*, *Hippodamia 13-punctata*.

WHEELER, W. M.—The embryology of *Blatta germanica* and *Doryphora decemlineata*. *Jour. Morphol.*, III., 291, 1889.

FORBES, S. A.—Cornbill bugs [Rhynchophora] in 16th Rep. Entom. Ill., p. 58, 1890.—*Sphenophorus minimus*, n. sp.; figures of *S. ochreus*, *pertinax*, *robustus*, *scoparius*, *melanocephalus*, *placidus*, *parvulus*.

BLANCHARD, F.—Revision of the species of *Cardiophorus* Esch. of America north of Mexico. *Trans. Am. Ent. Socy.*, XVI., p. 1, 1889.—Enumerates 31 species, the following new: *C. bifasciatus* (Cal.), *coxalis* (Oreg.), *pullus* (Colo.), *gemmifer* (Nev., Cal.), *abbreviatus* (Cal.), *angustatus* (Fla.), *nevadensis* (Nev.), *crinitus* (Cal.), *pubescens* (Wy., N. Mex., Colo.), *carbonatus* (Cal.), *seniculus* (Cal.), *dispar* (Cal.).

DIETZ, W. G.—On the species of *Macrops* Kirby inhabiting North America. *Trans. Am. Ent. Socy.*, XVI., p. 28.—33 species, the following new: *M. indistinctus* (N. J. to Wy.), *cryptops* (Ga., Fla.), *hyperodes* (Cal.), *nevadensis* (Nev.), *gryphiodes* (Wy. to Tex.), *wickhami* (N. Mex.), *interpunctulatus* (Neb. to Tex.), *ulkei* (Dak., Wy., Tex.), *dorsalis* (Ill., La., Tex.), *tenebrosus* (Mont., Dak., Wy.), *alternatus* (Ill.), *montanus* (Ill. to Mont.), *interstitialis* (Or.), *hornii* (Ga., Fla.), *setiger* (Fla.), *subscribratus* (Fla.), *longulus* (Dak.), *rotundicollis* (Tex.), *obscorellus* (Tex., D. C.), *imbellis* (La., Wash. Terr.), *hirtellus* (Ariz., N. Mex.), *echinatus* (Mass. to Ariz.), *obtectus* (Ariz.), *myasellus* (Colo.), *mirabilis* (Ill.), *californicus* (Cal., Wash.), *anthracinus* (Fla.).

HAMILTON, JOHN.—Catalogue of the Coleoptera common to North America, Northern Asia, and Europe, with the distribution and bibliography. *Trans. Am. Ent. Socy.*, XVI., p. 89, 1889.—484 species enumerated, 481 being common to Europe and America, 328 occurring in Asia. Notes are given on several species doubtfully referred to the North American fauna.

HORN, G. H.—Antennæ of Coleoptera. *Proc. A. N. S. Phila.*, 1889, p. 311, 1890.—Seat of special sense.

COCKERELL, F. D. A.—Colorado Coleoptera. *Ent. Mo. Mag.*, XXV., p. 186, 1889.—List of finds.

LEWIS, G.—On a new species of Teretriosoma. *Ent. Mo. Mag.*, XXV., 397, 1889.—*T. horni* (Key West).

HORN, G. H.—Notes on Coleoptera. *Entom. News*, I., p. 9, 1890.—Separation of species of Cryptohypnus.

LIEBECK, CH.—*Phytonomus punctatus* Fabr. *Ent. Notes*, I., p. 12, 1890.—Abundant at Philadelphia(?)

HAMILTON, J.—Rare beetles on the New Jersey coast. *Ent. Notes*, I. p. 12, 1890.—*Cafius sericeus*, *Cryptobium pusillum*, *C. lugubra*, *Quedius brunneus*, *Actobius nanus*.

WICKHAM, H. F.—Notes from the northwest. *Ent. Notes*, I., p. 33, 1890.—Captures in Montana to Oregon and Victoria.

LUGGER, OTTO.—Fond of grammar. *Ent. Notes*, I., 38, 1890.—Larva of *Trogosita mauritanica* boring in books.

LIEBECK, C.—Notes on Coleoptera. *Ent. Notes*, I., 52, 1890.

HORN, G. H.—Notes on Elateridæ. *Ent. Notes*, I., 53, 1890.—Notes on Candeze's species, chiefly synonymical; *Megapenthes limbalis* is male, *M. granulosus* female; *Corymbites inflatus* male, *C. crassus* female.

HAMILTON, JOHN.—Balaninus: its food habits. *Can. Ent.*, XXII., p. 1, 1890.—Habits of *B. proboscideus*, *rectus*, *quercus*, *nasicus*, *caryæ*, *uniformis*, *obtusus*.

COCKERELL, T. D. A.—Notes on the insect fauna of high altitudes in Custer county, Colorado. *Can. Ent.*, XXII., p. 37, 1890.

COOK, A. J.—A new clothes beetle. *Can. Ent.*, XXI., p. 187, 1889.—*Lasioderma serricorne*.

*BOURGEOIS, J.—Deux malacodermes nouveaux de l'Amérique meridional. *Ann. Soc. Ent. France*, VIII., 4 Trim. Bull., 176, 1889.—*Chauliognathus cardiaspis*, *Cantharis metallica*.

*BLANCHARD, F.—Observations on some variations of the males in Clinidium. *Psyche*, V., p. 165, 1889.

*WOODWORTH, C. W.—Trox at electric light. *Psyche*, V., p. 169.

SCHWARTZ, E. A.—On *Xyleborus pyri* and an undescribed allied species. *Proc. Ent. Socy. Washington*, I., p. 138, 1889.—Describes mines of *X. pyri* and of new (unnamed) species from Florida.

—On the types of *Tomicus linnae* Harris. Proc. Ent. Socy. Washington, I., p. 149, 1889.—Shows that Harris confused *Hylesinus opaculus* with above. Gives Harris's notes on other Scolytidæ.

—Termitophilous Coleoptera found in North America. Proc. Ent. Socy. Washington, I., p. 160, 1889.—Enumerates nine species.

HORN, G. H.—A synopsis of the Halticina of boreal America, Trans. Am. Ent. Socy., XVI., 163, 1889.—An extensive (158 pages) paper, with numerous new species and the following new genera: *Pseudolampsis*, *Phydanis*, *Hemiphrynus*, *Hemiglyptus*, *Leptotrix*.

LONG, C. W.—Staten Island fireflies. AM. NAT., XXIV., p. 691, 1890.

HEMIPTERA.

HEIDEMANN, O.—Remarks on the Hemiptera collected by Mr. Schwartz in Dade county, Florida. Proc. Ent. Socy. Washington I., p. 142, 1889.—General account.

UHLER, P. R.—Observations on the Heteroptera collected in Southern Florida by Mr. E. A. Schwartz. Proc. Ent. Socy. Washington, I., p. 142, 1889.—95 species collected, the following new: *Acanthochila exquisita*.

WEED, C. M.—Studies in pond life. Bull. Ohio Exp. Sta., Tech. Series, I., p. 4, 1889.—Habits of *Zaitha fluminea*, *Notonecta indulata*; eggs of *Benacus grisea*, *Belostoma americanum*.

FORBES, S. A.—Studies on the chinch bug, II., 16th Rep. Entom. Ill., p. 1, 1890.

—Contribution to an economic bibliography of the chinch bug. 16th Rep. Entom. Ill., Appendix, 1890.

DISTANT, W. L.—Description of a new species of neotropical Capsidæ. Ent. Mo. Mag., XXV., p. 202, 1889.—*Eccritotarsus exitiosus* (Trinidad).

COCKERELL, T. D. A.—*Coccus cacti* in Colorado. Ent. Mo. Mag., XXV., 382, 1889.

WEED, C. M.—Siphonophora or Nectarophora. Ent. Notes, I., p. 20, 1890.—Former preoccupied.

GILLETTE, C. P.—*Abcanthia papistrilla* in nests of the barn swallow. Ent. Notes, I., 26, 1890.

*UHLER, P. R.—New genera and species of American Homoptera. Trans. Amer. Acad. Science for 1888–89, p. 33, 1889.—Mostly California forms.

DIPTERA.

FORBES, S. A.—The meadow maggots or leather jackets. 16th Rep. Entom. Ill., p. 78, 1890.—Larva of *Tipula bicornis*.

IVES, J. E.—An interesting method of egg deposition. *Ent. Notes*, I., p. 39, 1890.—Oviposition of *Atherix*.

LEPIDOPTERA.

AARON, E. M.—*Erebia epipsodea* var. *sine-ocellata*. *Ent. Notes*, I., p. 12, 1890.—Synonym of *E. epipsodea* var. *brucei*.

SLOSSON, A. T.—May moths in northern New Hampshire. *Ent. Notes*, I., p. 17, 1890.

SKINNER, H.—Random notes on Lepidoptera. *Ent. Notes*, I., p. 19, 1890.—Sex of *Cecropia* cocoons, male compact, lighter in color, and more slender; cocoons of *Callosamia*.

JONES, F. M.—Notes on *Smerinthus astylus* Drury. *Ent. Notes*, I., 21, 1890.—Life-history.

AARON, E. M.—North American Hesperidæ. *Ent. Notes*, I., 23, 1890.—First of series; descriptions of *Eurycides urania* West., and *Eudamus hesus* West., Southwest U. S.

SKINNER, H.—Notes on Lepidoptera. *Ent. Notes*, I., p. 51, 1890.—*Protoparci dalica* = *P. rustica*; *Phyciodes ianthe* = *Acca hera*; *Eresia taxana* = *Smerdis*. Questions distinctions of *Ctenosanda noctuiformis* and *Cantethia grotei*; asks for type of *Arctia pallida*.

BEUTENMÜLLER, W., AND SKINNER, H.—[Spinning of *Callosamia angulifera*.] *Ent. Notes*, I., 58, 1890.

SKINNER, H.—Two new species of butterflies. Trans. Am. Ent. Socy., XVI., 86, 1889.—*Anartia dominica* (West Ind.), *Myrcelia streckeri* (Lower Cuba).

RILEY, C. V.—Two brilliant and interesting Microlepidoptera, new to our fauna. Proc. Ent. Socy. Washington, I., p. 155, 1889.—Describes as new *Setiostoma fernaldilla* (Los Angeles, Cal.) and *Walsinghamia* [n. g.] *diva* (Florida).

WEED, C. M.—Studies in pond life. Bull. Ohio Exp. Sta., Tech. Series, I., p. 5, 1889.—Habits and life-history of *Arzama obliquata*.

FORBES, S. A.—Notes on cut worms. 16th Rep. Entom. Ill., p. 84, 1890.—Noctuids, several larvæ figured.

——The burrowing web worm. 16th Rep. Entom. Ill., p. 98, —*Pseudanaphora acanella*.

BARRETT, C. G.—Capture of *Hadena albifusa* Grote in Great Britain. *Ent. Mo. Mag.*, XXV., 180, 1889.

COCKERELL, T. D. A.—*Alucita hexadactyla* L. in Colorado. *Ent. Mo. Mag.*, XXV., 212, 1889.

SMITH, J. B.—*Hadena albifusa* Grote in Great Britain. *Ent. Mo. Mag.*, XXV., 228, 1889.

SKINNER, H.—Notes on butterflies found at Cape May, N. J., with description of a new species of *Pamphila*. *Entom. News*, I., p. 6. 1890.—*P. aaroni*, range of *Satyrus alope*, oviposition of *Terias lisa*, first stages of *Pamphila panoquin*.

SMITH, J. B.—Preliminary catalogue of the Arctiidae of temperate North America, with notes. *Can. Ent.*, XXII., p. 9, 31, 1890.—Genera *Arctia*.

GROTE, A. R.—Note on the larval ornamentation of the N. Am. Sphingidae. *Can. Ent.*, XXII., p. 15, 1890.

BEUTENMÜLLER, WM.—Descriptions of Lepidopterous larvæ. *Can. Ent.*, XXII., p. 16, 1890.—*Mamestra lorea*, *Phycis rubifasciella*, *Salebria contatella*, *S. celtella*, *Botys fissalis*.

GROTE, A. R.—Note on the genus *Crocota* and Prof. J. B. Smith. *Can. Ent.*, XXII., p. 17, 1890.—Controversial.

EDWARDS, W. H.—Description of a new species of *Melituca* from Southern California. *Can. Ent.*, XXII., p. 21, 1890.—*M. angusta*.

GROTE, A. R.—The Noctuidæ of Europe and North America compared [continued]. *Can. Ent.*, XXII., p. 26, 1890.

COCKERELL, T. D. A.—*Erebia epipsodea* var. *sine-ocellata*. *Can. Ent.* XXII., p. 40, 1890—(?) var. *brucei*.

BEUTENMÜLLER, WM.—Description of the larva of *Trirhabda tormentosa*. *Can. Ent.*, XXII., p. 36, 1890.

RILEY, C. V.—Notes on *Pronuba* and *Yucca* pollination. *Proc. Ent. Socy. Washington*, I., p. 150, 1889.—Largely controversial.

BLAKE, C. A.—Hop-worms. *Ent. Notes*, I., p. 43, 1890.—Larva of *Gortyna nitela*.

EDWARDS, H.—Bibliographical catalogue of the described transformations of North American Lepidoptera. Bulletin U. S. Nat. Mus. No. 35, pp. 147, 1889.—References to early stages of 1069 species.

SMITH, J. B.—Contributions toward a monograph of the Noctuidæ of temperate North America.—Revision of some Tæniocampid genera. Proc. U. S. Nat. Mus., XII., p. 455, 1889 [1890].—The genera included are Barathra, Trichoclea, Scotogramma, Ulolonche, Himella, Crocigrapha, Orthodes, Tæniocampa, Perigrapha; no new species.

TAYLOR, W. E.—Preliminary catalogue of and notes on Nebraska butterflies. AM. NAT., XXIII., p. 1024, 1889 [1890].

HYMENOPTERA.

HARRINGTON, W. H.—Tenthredinidæ collected at Ottawa [Canada], 1889. *Can. Ent.*, XXII., p. 23, 1890.

COCKERELL, T. D. A.—Notes on the insect fauna of high altitudes in Custer county, Colorado. *Can. Ent.*, XXII., p. 37, 1890.

HARRINGTON, W. H.—The corn saw fly. *Can. Ent.*, XXII., p. 40, 1890.—*Cephus pygmæus* at Ottawa and Buffalo.

*GILLETTE, C. P.—Notes on certain Cynipidæ, with descriptions of new species. *Psyche*, V., 183, 1889.

ROBERTSON, C.—Notes on *Bombus*. *Ent. Notes*, I., p. 39, 1890.—Distinctness of *B. americanorum* and *B. pennsylvanicus*; *Apathus elatus* male of first.

HAMILTON, J.—The inhabitants of a hickory nut gall. *Ent. Notes*, I., 49, 1890.—*Pimpla*, *Phanerotoma tibialis*.

CRESSON, E. T.—[In above, p. 50].—Describes as new *Pimpla grapholithæ* from Missouri.

ROBERTSON, CH.—Synopsis of North American species of the genus *Oxybelus*. Trans. Am. Ent. Socy., XVI., p. 77, 1889.—14 species; new are *O. subulatus* = *mucronatus* Pack. (Penn. to Mont.), *cornutus* (Mont.), *packardii* = *lactus* Pack. (Ill., Tex.), *sericus* (Ill.), *fulvipes* (Fla.), *niger* (Ill.), *cressonii* (Ill.), *mexicanus* (Mex.), *frontalis* (Pa., Ill., Tex.), *forbesii* (Colo.).

ASHMEAD, W. H.—Descriptions of new Ichneumonidæ in the collection of the U. S. National Museum. Proc. U. S. Nat. Mus.,

XII., p. 387, 1890.—No new genera are characterized. Keys are given of the species of *Eristicus*, *Hemiteles*, *Cryptus*, *Orthopelma*, *Limneria*. Many new species are described.

EDITORIAL.

EDITORS, E. D. COPE AND J. S. KINGSLEY.

ABOUT fifty years ago the British Association for the Advancement of Science adopted certain rules for the guidance of nomenclators in science. These rules were based partly on customs which had become prevalent, but all were designed to secure fixity in consonance with the other interests of science. These other interests of science may be embraced under two heads: First, the maintenance of a high standard of scientific work; second, justice to the investigator. In accordance with these views, fixity is secured by the strict adhesion to the law of priority, without exception. The standard of scientific work is sustained by the requirement that names adopted shall represent work done or ideas worked out, and not prospective discoveries to be made or not made at some future time. Justice to the investigator is secured by the two requirements just mentioned, viz., that the originator of ideas and the discoverer of facts, and not some other person, shall be credited with them.

These rules have been carried more and more fully into practice as time has advanced. The American Association in 1876 adopted similar rules, and the Congress of Zoologists of Paris has followed the same example. The attempts made by scientists holding important positions in the governmental or other educational organizations to ignore and override the work of private and perhaps humbler citizens, which were not uncommon in the early part of this century, have fallen to the ground. In fact, we are now confronted with the opposite extreme, viz., the dis-